

AMERDRAIN[®] 500 Sheet Drain **

PRODUCT DESCRIPTION

AMERDRAIN 500 sheet drain is a two-part prefabricated soil sheet drain consisting of a formed polystyrene core covered with a non-woven, needle-punched polypropylene filter fabric on one side of the core. The fabric is bonded to each dimple to prevent soil intrusion into the water channel, and allows the water to pass into the drain core while restricting the movement of soil particles which might clog the core. The core provides compressive strength and allows water to flow to designated exits.

BASIC USES

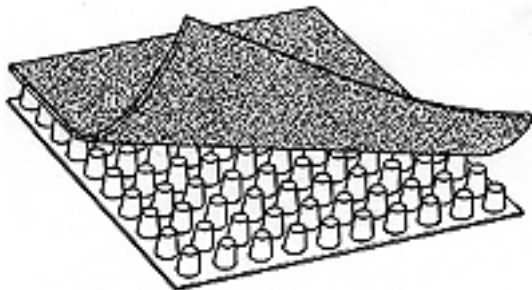
AMERDRAIN 500 sheet drain is designed primarily for vertical, one-sided sub-surface drainage applications requiring a high compressive strength and a high flow capacity. AMERDRAIN 500 can also be used in selected horizontal applications. The core side of AMERDRAIN 500 is placed against the wall surface of a foundation, retaining wall or other similar structure. AMERDRAIN 500 provides full-coverage protection to waterproofing materials.

PACKAGING

- 4' x 50', 52' or 104' Rolls
- Available in different widths and lengths upon request.

COLLECTION SYSTEMS

AMERDRAIN 500 sheet drain can be used with AMERDRAIN TOTAL-DRAIN™ sheet drain for the collection and transportation of the water to designated exits.



INSTALLATION INSTRUCTIONS

DRAIN ATTACHMENT METHODS:

For attaching drain to waterproofing material, concrete or wood, several methods may be used including metal stick pins, nails driven through washers or wood lathing, construction adhesives or double sided tape. Discuss materials compatibility with waterproofing supplier before using adhesives. Typically any method used for attaching waterproofing protection board will work with drain. To attach drain to bare earth, use 4"- 8" anchor pins with washers.

VERTICAL:

AMERDRAIN 500 may be installed starting at the top or bottom of the wall. The roll may be installed either vertically (perpendicular to the footing) or horizontally (parallel to the footing). When installed vertically, the core flange should be at the upstream edge. This flange position minimizes seepage of water behind the drain similar to the way roof shingles work. When installed horizontally, the edge of the core with the flange should be at the top.

HORIZONTAL:

The edge of the core with the flange should be at the upstream side of the plaza.

CORNERS:

Bend AMERDRAIN 500 to make inside corners. For outside corners, cut drain core flush with corners leaving 3" of extra fabric. Wrap fabric around exposed edge of drain core, securing with tape to back side of core if necessary.

BACKFILLING:

Soil should be placed and compacted directly against the drain. Direct compactor exhaust away from drain to prevent damage. Backfill to a minimum 6" above drain to allow for coverage after settlement.

Detailed instructions for installation and termination are available upon request.

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Technical Data

PHYSICAL PROPERTIES	TYPICAL US VALUE	TYPICAL SI VALUE	TEST METHOD
FABRIC PROPERTIES			
Material	Polypropylene	Polypropylene	
Grab Tensile Strength	110 lbs	485N	ASTM D-4632
Puncture Strength	65 lbs	285N	ASTM D-4833
Trapezoidal Tear	50 lbs	220N	ASTM D-4533
Mullen Burst Strength	225 psi	1496 kPa	ASTM D-3786
Elongation	60%	60%	ASTM D-4632
EOS (AOS)	70 sieve	212 micron	ASTM D-4751
Permittivity	1.6 sec ⁻¹	1.6 sec ⁻¹	ASTM D-4491
Permeability	0.12 in/sec	0.39 cm/sec	ASTM D-4491
Flow Rate	150 gal/min/ft ²	6110 L/min/m ²	ASTM D-4491
UV Resistance (After 500 hrs.)	70%	70%	ASTM D-4355
CORE PROPERTIES			
Material	Polystyrene	Polystyrene	
Thickness	7/16 inch	11 mm	
Compressive Strength	15,000 lbs/ft ²	732 kN/m ²	ASTM D-1621 (Mod.)
PRODUCT PROPERTIES			
Flow Capacity per unit width	16 gal/min/ft	200 L/min/m	ASTM D-4716
Roll length	50 ft	15.24 m	
Roll width	4 ft	1.22 m	
Roll weight	39 lbs	18 kg	

All information, drawings and specifications are based on the latest product information available at the time of printing. Constant improvement and engineering progress make it necessary that we reserve the right to make changes without notice. All physical properties are typical values. Standard variations in mechanical properties of 10% and in hydraulic properties of 20% are normal.



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